

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1-4. (Canceled).

5. (Currently Amended) A radar sensor utilizing the pulse-echo principle, comprising:  
a first receiving antenna;

a second receiving antenna having a narrower and longer range of coverage area than that of the first receiving antenna; and

a switch coupled to the first and second receiving antennas, wherein the switch alternately switches through a received signal of the first receiving antenna and a received signal of the second receiving antenna at a pulse repetition frequency of radar pulses transmitted by a transmitting antenna.

6. (Currently Amended) The radar sensor as recited in Claim 5, wherein the switching takes place only within a scanning distance range corresponding to the ~~shorter~~ range of the first receiving antenna.

7. (Currently Amended) A radar system, comprising:  
at least two radar sensors, each radar sensor including:

a first receiving antenna having a range of coverage area;

a second receiving antenna having a narrower and longer ~~narrow long~~ range of coverage area than ~~compared to~~ the range of the first receiving antenna, the range of the first receiving antenna being a broader and shorter ~~broad short~~ range than ~~compared to~~ the range of the second receiving antenna; and

a switch coupled to the first and second receiving antennas, wherein the switch alternately switches through a received signal of the first receiving antenna and a received signal of the second receiving antenna at a pulse repetition frequency of radar pulses transmitted by a transmitting antenna;

wherein a mono-pulse target angle determination is achieved using one of the radar sensors in the ~~[[short]]~~ range of the first receiving antenna of the one of the radar sensors by superimposing the ~~[[short]]~~ range of the first receiving antenna of the one of the radar sensors and the ~~[[long]]~~ range of the second receiving antenna of the one of the radar sensors, and wherein a target angle determination is achieved in a range longer than the ~~[[short]]~~ range of the first receiving antenna of the one of the radar sensors by triangulation using the at least two radar sensors.

8. (Currently Amended) A radar system, comprising:  
at least two radar sensors, each radar sensor including:  
    a first receiving antenna having a range of coverage area;  
    a second receiving antenna having a narrower and longer ~~narrow-long~~  
range of coverage area than ~~compared to~~ the range of the first receiving  
antenna, the range of the first receiving antenna being a broader and shorter  
~~broad-short~~ range than ~~compared to~~ the range of the second receiving antenna;  
and  
    a switch coupled to the first and second receiving antennas, wherein  
the switch alternately switches through a received signal of the first  
receiving antenna and a received signal of the second receiving antenna at a  
pulse repetition frequency of radar pulses transmitted by a transmitting  
antenna, and wherein the switching takes place only within a scanning  
distance range corresponding to the ~~[[short]]~~ range of the first receiving  
antenna;  
wherein a mono-pulse target angle determination is achieved using one of the radar  
sensors in the ~~[[short]]~~ range of the first receiving antenna of the one of the radar sensors by  
superimposing the ~~[[short]]~~ range of the first receiving antenna of the one of the radar sensors  
and the ~~[[long]]~~ range of the second receiving antenna of the one of the radar sensors, and  
wherein a target angle determination is achieved in a range longer than the ~~[[short]]~~ range of  
the first receiving antenna of the one of the radar sensors by triangulation using the at least  
two radar sensors.

9. (Previously Presented) The radar system as recited in Claim 7, wherein a  
calibration of the at least two radar sensors is achieved by obtaining redundant information in  
overlapping coverage areas of the first antenna of a first sensor, the second antenna of the  
first sensor, the first antenna of a second sensor, and the second antenna of the second sensor.

10. (Previously Presented) The radar system as recited in Claim 8, wherein a  
calibration of the at least two radar sensors is achieved by obtaining redundant information in  
overlapping coverage areas of the first antenna of a first sensor, the second antenna of the  
first sensor, the first antenna of a second sensor, and the second antenna of the second sensor.